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RELIABILITY PREDICTION

Model : SP-300 Data:1999-12-30

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	61	0.003700	10	2.257000	38.092
9.1	Resistor-Wirewound Power (RW)	5	0.008500	10	0.425000	7.173
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	6.751
9.1	Resistor-Thermistor (RTH)	2	0.001400	10	0.028000	0.473
10.1	Capacitor-Metal, Plastic (CH)	21	0.000510	10	0.107100	1.808
10.1	Capacitor-Ceramic(Gen.) (CK)	20	0.001700	10	0.340000	5.738
10.1	Capacitor-Aluminum Dry (CE)	17	0.001300	10	0.221000	3.730
6.1	Diode-Gen. Purpose Analog	2	0.003600	8	0.057600	0.972
6.1	Diode-Switching	18	0.000940	8	0.135360	2.284
6.1	Diode-Fast Recovery Power Rectifier	1	0.023000	8	0.184000	3.105
6.1	Diode-Power Rectifier / Schottky Power	8	0.002800	8	0.179200	3.024
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	4	0.003300	8	0.105600	1.782
6.1	Diode-Transient Suppressor/Varistor	1	0.002900	8	0.023200	0.392
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.338
6.3	Transistor-NPN/PNP	7	0.000150	8	0.008400	0.142
6.4	Transistor-MOSFET	3	0.014000	8	0.336000	5.671
6.11	OPTO-isolator	2	0.027000	8	0.432000	7.291
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.063
5.1	Linear Microcircuits	5	0.009500	10	0.475000	8.017
11.1	Transformer Switching	1	0.000610	3	0.001830	0.031
11.2	Coil Fixed inductor or choke	4	0.000032	3	0.000384	0.006
15.1	Connector- Rectangular	1	0.050000	2	0.100000	1.688
17.1	Single Connections-Reflow solder	442	0.000069	1	0.030498	0.515
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.004
22.1	Fuses	1	0.010000	1	0.010000	0.169
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	0.743
Total Failure rate:					5.925172	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**
- **Exclude: FAN**

MTBF: 168771.47 **hrs**

Approved by: David Wang Compiled by: Kim Tseng